

KEVIN JOSE

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EDUCATION

Indian Institute of Technology, Guwahati | 2016 - 2020

Bachelor of Technology, Electronics and Electrical Engineering - CGPA 7.78/10

Minor in Product Design - CGPA - 8.9/10

Jawahar Navodaya Vidyalaya, Palakkad, Kerala | 2008 - 2015

Class XII - 94.6%

Class X - CGPA 10/10

EXPERIENCE

CISCO SYSTEMS | SOFTWARE ENGINEER III

Datacenter Networking | Bangalore, KA | Aug 2020 - Now

- Drove key development initiatives for Cisco's flagship **SDN solution, ACI**, specialising in high availability, persistence, clustering, sharding, and replication within a **distributed systems environment**.
- Utilized proficiency in **C++, Python, and Go** to architect and uphold pivotal features.
- Redesigned the **CLI** to make it **declarative and user-friendly**, reducing configuration steps by **3x-5x** for major operations.
- Extended **CLI support** for cloud and standby APIC configurations, optimizing system resilience and user experience.
- Key contributor in Cisco's **ACI Python SDK Cobra** and introduced over **30 features** that can be leveraged to write custom scripts for interacting with ACI.
- Added **dual-stack capabilities** for **VMM Domain Floating L3out**, boosting network flexibility and performance.
- Integrated **VMware NSX** and **Nutanix AHV** with ACI, leveraging new Policy APIs for streamlined operations and enhanced policy consistency across environments.
- Created a **New-Hire Ramp-up plan** for the ACI INDIA Team, streamlining onboarding and knowledge transfer processes.

SAMSUNG RESEARCH | SOFTWARE DEVELOPMENT INTERN

Multimedia Team | Noida, UP | May 2019 - Jul 2019

- Utilized **STGAN** with **Selective Transfer Units** for facial attribute editing, including the development of a **Tkinter Image Viewer GUI** to showcase results.
- Achieved a **20% improvement in accuracy** over existing models with the proposed solution.
- Earned a **Pre-Placement Offer (PPO)** for exemplary demonstration of technical skills during the internship.

IIT HYDERABAD | RESEARCH INTERN

Dept. of EEE | Hyderabad, TS | May 2018 - Jul 2018

- Collaborated with **Dr. Sumohana S Channappaya** on **stereoscopic image analysis** using coupled GANs, implemented in **Keras** with **TensorFlow**, based on the **UNIT paper**.
- Extracted depth information from shared latent spaces with over **92% accuracy** to assess the quality of translated Stereoscopic Images.

MAJOR PROJECTS

Eye-fi | Auto-diagnosing System for Duane's Retraction Syndrome

- Developed a digital diagnostic tool using **OpenCV** and **Haar Cascade Classifier** for NIR images, coupled with the **Microsoft Azure Face API** for coloured images, to accurately detect the human eye and iris.
- Designed and implemented a data transfer channel using the **Carl Zeiss API** to handle collected information.

Accuracy analysis of multi-static radars

- Conducted **accuracy analysis** to determine the transmitter position using the TDOA method for multi-static radar configurations.
- Optimized radar placement using a **two-stage regression model**, considering tolerance levels and coverage area constraints.

TECHNICAL SKILLS

Programming Languages: **C, C++, Python, JavaScript, Go**

Web Technologies: **HTML, CSS, React.js, Node.js**

Machine Learning: **Numpy, Pandas, Scikit-learn, TensorFlow, PIL, matplotlib, Tkinter, Keras, OpenCV**

Prototyping Tools: **Figma, Adobe Creative Suite**

Miscellaneous: **Google Workspace, Kafka, microservices, distributed systems, GraphQL, Git**

ACHIEVEMENTS

Six-time recipient of the **Cisco Connected Recognition Award** for outstanding performance.

Won the **Carl Zeiss Award** at the **Engineering The Eye Hackathon**, a joint initiative by Microsoft, Carl Zeiss, and LVPEI, for the project Eye-fi amongst **200+ teams**.

Awarded **Best Outgoing Student** for exceptional performance in academics, sports, and arts, Class of 2015, Jawahar Navodaya Vidyalaya, Palakkad.

CERTIFICATIONS

- Cisco NCH Training: Advanced C, Python and Java
- Deep Learning Specialization from DeepLearning.ai
- Google UX Design Professional Certificate
- Google IT Support Professional Certificate - Computer Networking

POSITIONS OF RESPONSIBILITY

Mentorship: Student Mentor for underprivileged students at Avanti Fellows, JNV Bellari; Peer Mentor for freshmen at Saathi - Counselling Service, IIT Guwahati.

Leadership: Coordinator of Rhinos, IITG Basketball Club.

EXTRA-CURRICULARS

Sports: Active participant in the Cisco corporate basketball team and competitor in various championships representing IIT Guwahati, JNV Palakkad, and St. Raphael's Basketball Club.

Leadership & Development: Served as a Cadet in the 27 Kerala National Cadet Corps Battalion, earning an A-Certificate.

Creative Pursuits: Engaged in branding, graphic design, product design, cartooning, pencil sketching, and photography, applying creative skills across multiple artistic disciplines.